

In re Application of SHAW et al.

Confirmation No: 8619

Application No. 10/810,388

Examiner: GUCKER, Stephen

Page - 2 -

### AMENDMENTS TO THE CLAIMS

Upon entry of this amendment, this listing of claims will replace all prior versions, and listings, of claims in the application:

#### Listing of Claims:

Claim 1 (Currently amended) A method of detecting neuronal injury in a subject, the method comprising the steps of:

(a) providing a biological blood, serum, or plasma sample derived from the subject;

(b) contacting the blood, serum, or plasma sample with an antibody that specifically binds to NF-H in the sample;

[(b)] (c) detecting the presence or amount of at least one neurofilament derived protein or peptide (NFDP) NF-H in the sample,

wherein NF-H can be detected at a concentration of about 1 picogram/μl; and

[(c)] (d) correlating the presence or amount of the NFDP NF-H in the sample with the neuronal injury.

Claim 2 (Canceled)

Claim 3 (Currently amended) The method of claim 1, wherein the step [(b)] (c) of detecting the presence [[of]] or quantifying in the sample at least one NFDP amount of NF-H comprises performing an immunoassay selected from the group consisting of immunoblotting, ELISA, radioimmunoassay, immunodiffusion or immunoprecipitation.

Claims 4-5 (Canceled)

Claim 6 (Currently amended) The method of claim [[5]] 3, wherein the step [(b)] (c) of detecting the presence [[of]] or quantifying in the sample at least one NFDP amount of NF-H comprises performing an ELISA.

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Page - 3 -

Claim 7 (Withdrawn) A kit for detecting a neuronal injury in a subject, the kit comprising:

- (a) a solid substrate;
- (b) at least one antibody that binds specifically to an NFDP;
- (c) an agent for detecting binding of the at least one antibody to the NFDP; and
- (d) instructions for using the kit to detect neuronal injury in a subject.

Claim 8 (Withdrawn) The kit of claim 7, wherein the NFDP is NF-H.

Claim 9 (Withdrawn) The kit of claim 7, wherein the agent for detecting binding of the at least one antibody to the NFDP comprises a chromogenic substrate molecule.

Claim 10 (Withdrawn) The kit of claim 7, wherein detecting binding of the at least one antibody to the NFDP is correlated with neuronal injury.

Claim 11 (New) The method of claim 1, wherein the antibody is a chicken polyclonal antibody.

Claim 12 (New) The method of claim 1, wherein step (a) of providing a blood, serum, or plasma sample from the subject is performed within a few hours of the neuronal injury.